CLAIMS

Method of making hot strips of a workable lightweight construction steel
which in particular can be easily deep-drawn cold, comprising the main
elements Si, Al and Mn, and having a high tensile strength and TRIP and/or
TWIP characteristics, characterized in

that the contents in mass-% amount for

C $0.04 \text{ to} \le 1.0$

Al 0.05 to < 4.0

Si 0.05 to < 6.0

Mn $9.0 \text{ to} \leq 30.0$,

the remainder being iron including common incidental steel elements, wherein a melt is cast in a horizontal strip casting unit, close to final dimensions at calm flow and without bending, to form a pre-strip in the range between 6 and 15 mm, and subsequently is fed for further processing.

- 2. Method according to claim 1,
 - characterized in

that the carbon content amounts to 0.06 to < 0.7 %.

- 3. Method according to claim 1 and 2,
 - characterized in

that the steel contains Cr up to ≤ 6.5 %.

Method according to claim 1 - 3,

characterized in

that the Mn content amounts to 9 - 18 %.

- Method according to claim 1 3, characterized in that the Mn content amounts to 18 - 22 %.
- Method according to claim 3 5,
 characterized in
 that the Cr content amounts to 0.3 1.0 %.
- Method according to claim 1 3, characterized in that the Mn content amounts to 22 - 30 %.
- Method according to claim 3 and 7, characterized in that the Cr content amounts to 0.05 - 0.2 %.
- Method according to the claims 1-8, characterized in that the Si content amounts to 2.0 - 4.0 %.
- Method according to the claims 1 9, characterized in that the Al content amounts to 2.0 - 3.0 %.
- Method according to the claims 1 10, characterized in that the hydrogen content amounts to < 20 ppm.

12. Method according to claim 11,characterized inthat the hydrogen content amounts to < 5 ppm.

13. Method according to the claims 1 - 12, characterized in that Cu up to ≤ 4 % is optionally contained.

14. Method according to the claims 1 - 13, characterized in that titanium and zirconium in total of up to ≤ 0.7 % are optionally contained.

15. Method according to the claims 1 - 12, characterized in that niobium and vanadium in total of up to ≤ 0.06 % are optionally contained.

16. Method according to the claims 14 and 15, characterized in that titanium, zirconium, niobium and vanadium in total of up to ≤ 0.8 % are optionally contained.

17. Method according to one of the claims 1 - 16, characterized in that the speed of the melt feed is identical to the speed of the revolving conveyor band. 18. Method according to one of the claims 1 - 17,

characterized in

that the strand shell of a strip, which extends across the width of the conveyor band, is forming as solidification commences, with all surface elements of the strand shell subjected to substantially identical cool-down conditions.

19. Method according to one of the claims 1 - 18.

characterized in

that the melt being placed on the conveyor band is substantially through solidified at the end of the conveyor band.

20. Method according to claim 1 and 19.

characterized in

that following the through solidification and before commencement of the further processing, the pre-strip advances through a homogenization zone.

21. Method according to claim 1 and 20,

characterized in

that the further processing involves a coiling of the pre-strip.

22. Method according to claim 1 and 20,

characterized in

that the pre-strip undergoes inline a rolling process and is then coiled up.

23. Method according to claim 1 and 20,

characterized in

that the deformation degree is at least 50 %, preferably > 70 %.